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## NOTICE OF ALLOWANCE AND FEE(S) DUE

23446

7590

12/30/2008

MCANDREWS HELD & MALLOY, LTD 500 WEST MADISON STREET SUITE 3400 CHICAGO, IL 60661 EXAMINER

BOAKYE, ALEXANDER O

ART UNIT PAPER NUMBER

2416

DATE MAILED: 12/30/2008

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/644,204	08/20/2003	Martin Lund	14226US02	5736	

TITLE OF INVENTION: METHOD AND SYSTEM TO PROVIDE WORD-LEVEL FLOW CONTROL USING SPARE LINK BANDWIDTH

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/30/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

## Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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MCANDREWS HELD & MALLOY, LTD 500 WEST MADISON STREET SUITE 3400				Certificate of Mailing or Transmission  I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelop addressed to the Mail Stop ISSUE FEE address above, or being facsimily transmitted to the USPTO (571) 273-2885, on the date indicated below.				
CHICAGO, IL 6	00661						(Depositor's name)	
							(Signature)	
							(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	R	ATTC	RNEY DOCKET NO.	CONFIRMATION NO.	
10/644,204	08/20/2003	•	Martin Lund			14226US02	5736	
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	03/30/2009	
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BOAKYE, AL	EXANDER O	2416	370-230000	_				
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PLEASE NOTE: Unl	less an assignee is ident	ified below, no assignee	data will appear on the	patent. If an assign	nee is i	dentified below, the do	ocument has been filed for	
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(II) WHILE OF TIOSE	STILL		(B) RESIDENCES. (CIT	T und STATE OR		(11)		
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Please check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent):	Individual LC	orporat	ion or other private gro	up entity 🖵 Government	
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☐ Publication Fee (No small entity discount permitted)☐ Advance Order - # of Copies			☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any					
			overpayment, to Dep	osit Account Numb	er	(enclose ar	extra copy of this form).	
5. Change in Entity Sta	<b>tus</b> (from status indicate is SMALL ENTITY stati		☐ b. Applicant is no lo	nger claiming SMA	LL EN	TITY status See 37 CF	FR 1.27(g)(2)	
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Typed or printed name				Registration 1	No			
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10/644,204	08/20/2003	Martin Lund	14226US02	5736	
23446 75	90 12/30/2008		EXAMINER		
MCANDREWS 1	HELD & MALLOY,	BOAKYE, AL	EXANDER O		
500 WEST MADIS	SON STREET	ART UNIT	PAPER NUMBER		
SUITE 3400 CHICAGO, IL 606	561		2416 DATE MAILED: 12/30/200	8	

## **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 901 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 901 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
Nation of Allowability	10/644,204	LUND, MARTIN	
Notice of Allowability	Examiner	Art Unit	
	ALEXANDER BOAKYE	2416	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in to or other appropriate commun GHTS. This application is sul	nis application. If not included ication will be mailed in due cours	
1. This communication is responsive to 09/03/2008.			
2. X The allowed claim(s) is/are <u>1-7,12-13,16,32-39,41-45,47;re</u>	enumbered as 1-24 respective	<u>ly.</u> .	
<ul> <li>3. Acknowledgment is made of a claim for foreign priority ur</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority documents</li> </ul>	been received. been received in Application	No	om the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requirer	nents
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			E OF
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	t be submitted.		
(a) $\square$ including changes required by the Notice of Draftspers	on's Patent Drawing Review (	PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			
<ul><li>(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date</li></ul>	s Amendment / Comment or ir	the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the			) of
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT</li> </ol>			he
Attachment(s)	E There are	mand Data at Annel' anti-	
<ol> <li>Notice of References Cited (PTO-892)</li> <li>D Notice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>		rmal Patent Application	
<ol> <li>Information Disclosure Statements (PTO/SB/08),</li> </ol>	6. ☐ Interview Sun Paper No./M 7 ☐ Examiner's A	ail Date mendment/Comment	
Paper No./Mail Date <u>08/23/07;05/18/06</u>			
<ol> <li>Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ol>		atement of Reasons for Allowand	e
	9.  Other		
	/Chi H Pham/ Supervisory Pate 12/18/08	nt Examiner, Art Unit 2416	
	i		

Application/Control Number: 10/644,204 Page 2

Art Unit: 2416

### **REASONS FOR ALLOWANCE**

1. The following is an examiner's statement of reasons for allowance: Claims 1-7, 12-13, 16, 32-39, 41-45 are considered allowable since when reading the claims in light of the, specification none of the references of record alone or in combination disclose or suggest the combinations of limitations specified in the independent claims. As to claims 1-7, 12, 13, 16, the prior art of record does not teach suspending the transmission of the frame of data without waiting for the end of the frame when the first receives a stop transmission request embedded in a secondary communication channel between the second system and the first system. As to claims 32-34, the prior art of record does not teach a controller operably coupled to a full-duplex communication link; wherein the controller includes an encoder that encodes a secondary channel, and a decoder that decodes a received communication channel, wherein the secondary communications channel includes word level coding, and the system stops transmission of data without waiting for the end of a packet in response to word level commands received on the secondary communication channel.

As to claims 35, 36, 37, 41, 42, 43, the prior art of record does not teach suspending the transmission of the frame of data without waiting for the end of the frame when the first system receives a stop transmission request embedded in a secondary communication channel between the second system and the first system; and resuming transmission of the frame with the next word following the receipt of a

Page 3

Art Unit: 2416

start transmission code embedded in the secondary communication channel, wherein the secondary communication channel is formed from groups of enhanced coded data words occurring at regular intervals in a data frame.

As to claims 44, 45 the prior art of record does not embedding flow control data in a secondary communication channel of the communications link for use by a primary communication channel of the communications link; and resuming transmission of the frame with the next word following the receipt of a start transmission code embedded in the secondary communication channel. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander Boakye whose telephone number is (571) 272-3183. The examiner can normally be reached on M-F from 8:30am to 6:00pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham, can be reached on (571) 272-3179. The Fax number is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or PUBLIC PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Any

Application/Control Number: 10/644,204 Page 4

Art Unit: 2416

inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Electronic Business Center (EBC) numbers at 866-217-9197 and 703-305-3028.

/ALEXANDER BOAKYE/

Examiner, Art Unit 2416

12/16/2008

/Chi H Pham/

Supervisory Patent Examiner, Art Unit 2416

12/17/08